MAY 2 8 2002

SEQUENCE LISTING

> EVANS, RONALD M. <120> Novel steroid-activated nuclear receptors and uses therefor <130> SALK2270-5 <140> 10/081,555 <141> 2002-02-20 <150> 09/458,366 <151> 1999-12-09 <160> 09/227,718 <161> 1999-01-08 <170> 09/005,286 <171> 1998-01-09 <180> 43 <190> PatentIn Ver. 2.1 <210> 1 <211> 2068 <212> DNA <213> Homo sapiens <220> <221> CDS <222> (583)..(1884) <220> <221> modified_base <222> (1263) <223> a, c, t, or g · <400> 1 ggcacgagga gatctaggtt caaattaatg ttgcccctag tggtaaagga cagagaccct 60 cagactgatg aaatgcgctc agaattactt agacaaagcg gatatttgcc actctcttcc 120 ccttttcctg tgtttttgta gtgaagagac ctgaaagaaa aaagtaggga gaacataatg 180 agaacaaata cggtaatctc ttcatttgct agttcaagtg ctggacttgg gacttaggag 240 gggcaatgga gccgcttagt gcctacatct gacttggact gaaatatagg tgagagacaa 300 gattgtctca tatccgggga aatcataacc tatgactagg acgggaagag gaagcactgc 360 ctttacttca gtgggaatct cggcctcagc ctgcaagcca agtgttcaca gtgagaaaag 420 caagagaata agctaatact cctgtcctga acaaggcagc ggctccttgg taaagctact 480 cettgatega teetttgeac eggattgtte aaagtggace eeaggggaga agteggagca 540 594 aagaacttac caccaagcag tccaagaggc ccagaagcaa ac ctg gag gtg aga

Leu Glu Val Arg

		•																				
																•						
						•	٠					, 2										
									a nt	aat			at a	C 3 C	tat	asa	asc	3.03	642			
														cac His					012			
			gag Glu	tct Ser	gtt Val	cct Pro	gga Gly 25	aag Lys	ccc Pro	agt Ser	gtc Val	aac Asn 30	gca Ala	gat Asp	gag Glu	gaa Glu	gtc Val 35	gga Gly	690			
														gcc Ala					738			
														ttt Phe					786			
			atg Met	aaa Lys 70	cgc Arg	aac Asn	gcc Ala	cgg Arg	ctg Leu 75	agg Arg	tgc Cys	ccc Pro	ttc Phe	cgg Arg 80	aag Lys	ggc Gly	gcc Ala	tgc Cys	834			
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t			aag Lys	tgc Cys	ctg Leu	gag Glu	agc Ser 105	ggc Gly	atg Met	aag Lys	aag Lys	gag Glu 110	atg Met	atc Ile	atg Met	tcc Ser	gac Asp 115	gag Glu	930			
			gcc Ala	gtg Val	gag Glu	gag Glu 120	agg Arg	cgg Arg	gcc Ala	ttg Leu	atc Ile 125	aag Lys	cgg Arg	aag Lys	aaa Lys	agt Ser 130	gaa Glu	cgg Arg	978			
	•	•	aca Thr	Gly 999	act Thr 135	cag Gln	cca Pro	ctg Leu	gga Gly	gtg Val 140	cag Gln	ggg Gly	ctg Leu	aca Thr	gag Glu 145	gag Glu	cag Gln	cgg Arg	1026	·		
and a day broader problem			atg Met	atg Met 150	atc Ile	agg Arg	gag Glu	ctg Leu	atg Met 155	gac Asp	gct Ala	cag Gln	atg Met	aaa Lys 160	acc Thr	ttt Phe	gac Asp	act Thr	1074			:
•	•		acc Thr 165	ttc Phe	tcc Ser	cat His	ttc Phe	aag Lys 170	aat Asn	ttc Phe	cgg Arg	ctg Leu	cca Pro 175	Gly 999	gtg Val	ctt Leu	agc Ser	agt Ser 180	1122			
														tcg Ser					1170			
- Carry o community														tct Ser					1218			
			ctg Leu	caa Gln	gct Ala 215	gcg Ala	ggg ggg	gga Gly	gga Gly	tgg Trp 220	cag	tgt Cys	ctg Leu	gaa Glu	cta Leu 225	caa Gln	acn Xaa	ccc Pro	1266			
; ;			agc Ser	cga Arg	cag Gln	tgg Trp	cgg Arg	aaa Lys	gag Glu	atc Ile	ttc Phe	tcc Ser	ctg Leu	ctg Leu	ccc Pro	cac His	atg Met	gct Ala	1314			

230 235 240

gac Asp 245	atg Met	tca Ser	acc Thr	tac Tyr	atg Met 250	ttc Phe	aaa Lys	ggc Gly	atc Ile	atc Ile 255	agc Ser	ttt Phe	gcc Ala	aaa Lys	gtc Val 260	1362
					gac Asp											1410
aag Lys	Gly aaa	gcc Ala	gct Ala 280	ttc Phe	gag Glu	ctg Leu	tgt Cys	caa Gln 285	ctg Leu	aga Arg	ttc Phe	aac Asn	aca Thr 290	gtg Val	ttc Phe	1458
					acc Thr											1506
					ggc Gly											1554
aaa Lys 325	ttc Phe	cac His	tac Tyr	atg Met	ctg Leu 330	aag Lys	aag Lys	ctg Leu	cag Gln	ctg Leu 335	cat His	gag Glu	gag Glu	gag Glu	tat Tyr 340	1602
					atc Ile											1650
					gtg Val											1698
					gaa Glu											1746
					atg Met										aat Asn	1794
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gcac	tccc	gg g	jccaa	igaca	ag at	:ggad	cacto	g cca	agag	gccg	acaa	atgco	cct q	gctgg	gcctgt	2004
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Glu Glu Val Gly Gly Pro Gln Ile Cys Arg Val Cys Gly Asp Lys Ala
                             40
Thr Gly Tyr His Phe Asn Val Met Thr Cys Glu Gly Cys Lys Gly Phe
     50
                                              60
Phe Arg Arg Ala Met Lys Arg Asn Ala Arg Leu Arg Cys Pro Phe Arg
                     70
Lys Gly Ala Cys Glu Ile Thr Arg Lys Thr Arg Arg Gln Cys Gln Ala
                 85
                                     90
Cys Arg Leu Arg Lys Cys Leu Glu Ser Gly Met Lys Lys Glu Met Ile
            100
                                105
Met Ser Asp Glu Ala Val Glu Glu Arg Arg Ala Leu Ile Lys Arg Lys
                            120
        115
Lys Ser Glu Arg Thr Gly Thr Gln Pro Leu Gly Val Gln Gly Leu Thr
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Glu Glu Gln Arg Met Met Ile Arg Glu Leu Met Asp Ala Gln Met Lys
                    150
145
Thr Phe Asp Thr Thr Phe Ser His Phe Lys Asn Phe Arg Leu Pro Gly
Val Leu Ser Ser Gly Cys Glu Leu Pro Glu Pro Leu Gln Ala Pro Ser
Arg Glu Glu Ala Ala Lys Trp Ser Gln Val Arg Lys Asp Leu Cys Ser
Leu Lys Val Ser Leu Gln Ala Ala Gly Gly Gly Trp Gln Cys Leu Glu
Leu Gln Xaa Pro Ser Arg Gln Trp Arg Lys Glu Ile Phe Ser Leu Leu
                                        235
Pro His Met Ala Asp Met Ser Thr Tyr Met Phe Lys Gly Ile Ile Ser
                245
                                    250
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Phe Ala Lys Val Ile Ser Tyr Phe Arg Asp Leu Pro Ile Glu Asp Gln Ile Ser Leu Leu Lys Gly Ala Ala Phe Glu Leu Cys Gln Leu Arg Phe 280 Asn Thr Val Phe Asn Ala Glu Thr Gly Thr Trp Glu Cys Gly Arg Leu 295 290 Ser Tyr Cys Leu Glu Asp Thr Ala Gly Gly Phe Gln Gln Leu Leu Glu Pro Met Leu Lys Phe His Tyr Met Leu Lys Lys Leu Gln Leu His 330 325 Glu Glu Glu Tyr Val Leu Met Gln Ala Ile Ser Leu Phe Ser Pro Asp Arg Pro Gly Val Leu Gln His Arg Val Val Asp Gln Leu Gln Glu Gln Phe Ala Ile Thr Leu Lys Ser Tyr Ile Glu Cys Asn Arg Pro Gln Pro 370 Ala His Arg Phe Leu Phe Leu Lys Ile Met Ala Met Leu Thr Glu Leu 390 Arg Ser Ile Asn Ala Gln His Thr Gln Arg Leu Leu Arg Ile Gln Asp 405 Ile His Pro Phe Ala Thr Pro Leu Met Gln Glu Leu Phe Gly Ile Thr 425 430 Gly Ser

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<220.>

<223> Description of Artificial Sequence: Putative SXR response element from the steroid hydoxylase, rCYP3A1

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	Artificial Sequence	•		
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<223>	Artificial Sequence Description of Artificial response element from the rP450R	steroid hydoxylase,	SXR	. 33
<223> <400> cacago <210> <211> <212>	Artificial Sequence Description of Artificial response element from the rP450R 7 gtgag ctgaggccag cagcaggtc 8 27	steroid hydoxylase,	SXR	33
<223> <400> cacage <210> <211> <212> <213> <220>	Artificial Sequence Description of Artificial response element from the rP450R 7 gtgag ctgaggccag cagcaggtc 8 27 DNA	steroid hydoxylase, g aaa Sequence: Putative		. 33

			9	
<210><211><212><213>	27			
	•			
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<220>		G But at inc. GVD		
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	rCYP2C6	steroid hydoxyrase,		
	1011200	•	•	
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agtcta	agttc agtgggggtt cagtctt			27
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				-
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	•			
-010-	10			
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	with spacer of 2 nucleotides				
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catagi	cagg tcaataggtc agatcaac				28
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<213>	Artificial Sequence				
			•	٠.	
<220>	Description of Artificial Sequence:	Direct	repeat		
\ZZ J/	with spacer of 3 nucleotides	D11000	ropout		
		-			. •
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			•		
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~~~/	or interretar ocquence.				

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	,	•	•
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	with spacer of 7 nucleotides		
	with pater of a national		
-400-	10		
<400>	• •		33
catagt	cagg tcatatatat aggtcagatc aac		, 33
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<221> modified base
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nucleotides

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010	25				ř,
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			. •		
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-100-	2.7				
<400>			•		. 25
greeri	gggg tettetacet ttete	,			. 23
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(2237	oligonucleotide for PCR	ocquemec.	Synchecte		
	origonacieociae for rex	•			
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gacgai	cegg deceggacae geegg				
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